

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF CLAIMS:**

Claims 1 to 6. (Canceled).

7. (Currently Amended) An ignition coil of an ignition system in an internal combustion engine, comprising:

- a housing;
- a magnetically active core;
- a first coil winding connected to a supply voltage;
- a second coil winding connected to a high-voltage terminal; and
- at least one electrically conductive component having, at least in some areas, an arrangement for an electrically effective evening out of its inside surface, wherein the arrangement adjoins the housing by a smooth surface and wherein the magnetically active core adjoins the same arrangement, and wherein the electrically conductive component is a peripheral core of a compact ignition coil.

8. (Previously Presented) The ignition coil according to claim 7, wherein the arrangement is formed by an electrically conductive sheathing which has a smooth surface.

9. (Previously Presented) The ignition coil according to claim 8, wherein the sheathing is a layer of electrically conductive plastic.

10. (Previously Presented) The ignition coil according to claim 8, wherein the sheathing is extruded.

11. (Previously Presented) The ignition coil according to claim 7, wherein the electrically conductive component is the magnetically active core.

Claim 12. (Canceled).

13. (Currently Amended) An ignition coil of an ignition system of an internal combustion engine, comprising;

- a housing;

a magnetically active inner core, which is surrounded by a primary winding and a secondary winding; and

a magnetically active outer core;

wherein at least the inner core, the primary winding and the secondary winding being surrounded by a cast resin for fixing in the housing,

wherein the inner core is surrounded by a first electrically conductive plastic covering the inner core on a side facing the primary winding, and the outer core is surrounded by a second electrically conductive plastic covering the inside surface of the outer core on a side facing the secondary winding; and

wherein the plastic covering is sprayed onto the inner core and the outer core as a coating.

14. (Previously Presented) The ignition coil of claim 13, wherein the thickness of each of the first and second plastic coverings is between 0.1 and 1.0 mm, preferably 0.5 mm.

15. (Previously Presented) The ignition coil of claim 13, wherein the first plastic covering has a smooth surface on the side facing the primary winding and the second plastic covering has a smooth surface on the side facing the secondary winding.

16. (Previously Presented) The ignition coil of claim 13, wherein the inner core and the outer core are each made up of a core stack having a plurality of punched single sheets.

17. (Previously Presented) The ignition coil according to claim 7, wherein the sheathing is provided with radii in corners of the magnetically active core.

18. (Previously Presented) The ignition coil of claim 13, wherein the second electrically conductive plastic adjoins the housing by a smooth surface.

19. (New) The ignition coil according to claim 7, wherein the arrangement is provided on the inside surface of the at least one electrically conductive component.

20. (New) The ignition coil according to claim 7, wherein the arrangement is provided on the outside surface of the housing.